

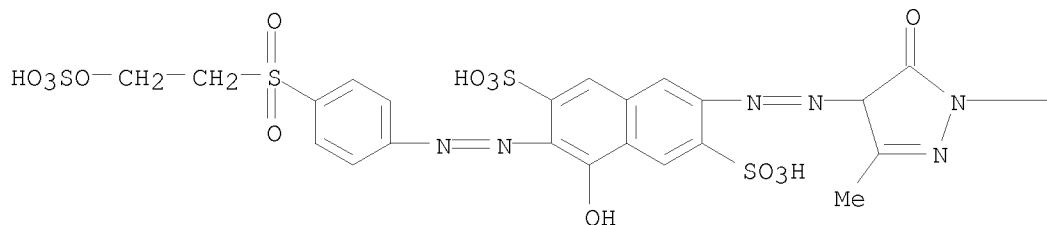
AB The dyes (I; A = fiber-reactive group; one of R1 and R2 is H and the other is sulfo; X = heterocyclic or naphthyl coupling component) are obtained from diazotized ANH2 coupled with an aminohydroxynaphthalenedisulfonic acid, the product of which is diazotized and coupled with XH. I have good fastness properties when used to dye or print cellulosics or N-containing fibrous substrates. Thus, 2-(4-aminophenylsulfonyl)ethyl H sulfate→6-amino-1-hydroxynaphthalene-3,5-disulfonic acid was obtained and diazotized and coupled with 5-carbamoyl-1-ethyl-6-hydroxy-4-methyl-2-pyridone to give a red dye which colored cellulose in fast orange shades.

IT 178397-15-4P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation of reactive azo dyes for cellulosics)

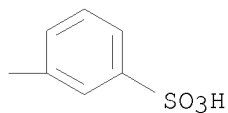
RN 178397-15-4 CAPLUS

CN 2,6-Naphthalenedisulfonic acid, 7-[2-[4,5-dihydro-3-methyl-5-oxo-1-(3-sulphophenyl)-1H-pyrazol-4-yl]diazenyl]-4-hydroxy-3-[2-[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]diazenyl]- (CA INDEX NAME)

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PAGE 1-B



L15 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1990:38338 CAPLUS

DOCUMENT NUMBER: 112:38338

ORIGINAL REFERENCE NO.: 112:6621a,6624a

TITLE: Inks containing azo dyes with cyanopyrazolinone groups for jet printing

INVENTOR(S): Sakaeda, Takeshi; Suga, Yuko; Shirota, Katsuhiko

PATENT ASSIGNEE(S): Canon K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 5 pp.
 CODEN: JKXXAF

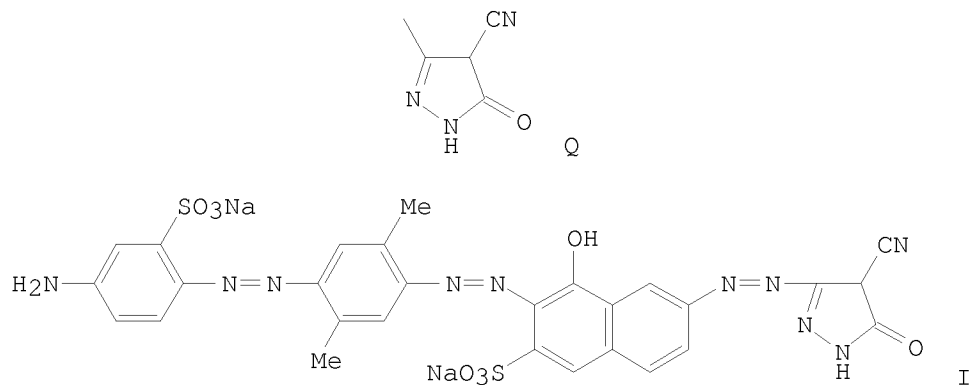
DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------------|------|----------|-----------------|----------|
| ----- | ---- | ----- | ----- | ----- |
| JP 01135880 | A | 19890529 | JP 1987-294035 | 19871124 |
| PRIORITY APPLN. INFO.: GI | | | JP 1987-294035 | 19871124 |



AB The title inks, anticlogging with good storage stability, comprise ≥ 1 of dyes containing structural unit Q in the mol. Thus, a composition of compound I 4, diethylene glycol 30, and H₂O 66% was anticlogging and storage-stable and produced light- and water-resistant prints on a variety of papers.

IT 124673-75-2

RL: USES (Uses)

(inks containing, black, for jet-printing)

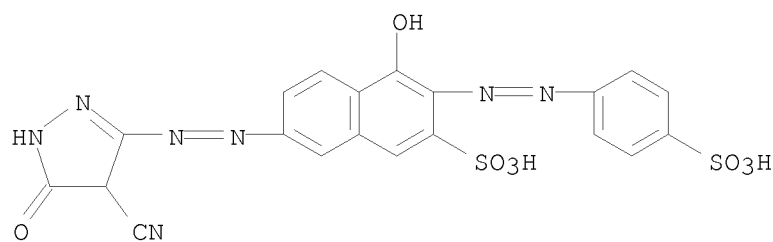
RN 124673-75-2 CAPLUS

CN 2-Naphthalenesulfonic acid, 7-[2-(4-cyano-4,5-dihydro-5-oxo-1H-pyrazol-3-yl)diazenyl]-4-hydroxy-3-[2-(4-sulfophenyl)diazenyl]-, compd. with 2-aminoethanol (1:2) (CA INDEX NAME)

CM 1

CRN 124673-74-1

CMF C20 H13 N7 O8 S2



CM 2

CRN 141-43-5

CMF C2 H7 N O

H₂N-CH₂-CH₂-OH

L15 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 1986:151000 CAPLUS

DOCUMENT NUMBER: 104:151000

ORIGINAL REFERENCE NO.: 104:23905a,23908a

TITLE: Aqueous inks